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IS 9638-4 (1984): Fixed polyester film dielectric capacitors for direct current, Part 4: Type FCPE 3 [LITD 5: Semiconductor and Other Electronic Components and Devices]

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UDC 621·319·4·024 : 621·315·616·96 - 416 [678·674]

IS : 9638 (Part 4) - 1984

Indian Standard

(Reaffirmed 2002)

SPECIFICATION FOR FIXED POLYESTER FILM DIELECTRIC CAPACITORS FOR DIRECT CURRENT

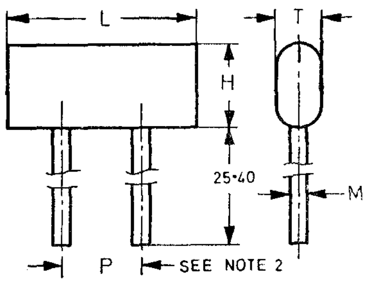
PART 4 TYPE FCPE 3

Capacitors Sectional Committee, LTDC 15; Capacitors Subcommittee, LTDC 15 : 1 [Ref : Doc : LTDC 15 (429)]

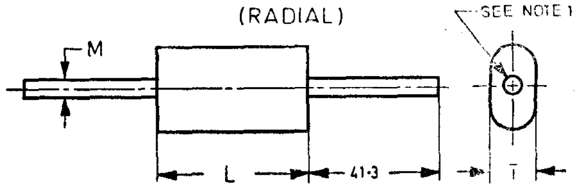
0. General — This standard (Part 4) shall be read in conjunction with IS : 9638 (Part 1)-1980 'Specification for fixed polyester film dielectric capacitors for direct current: Part 1 General requirements and methods of tests'.

1. Scope — This standard (Part 4) covers polyester film dielectric capacitors, oval, non-hermetically sealed, in non-metal case with radial/axial terminations.

2. Outline, Drawing and Dimensions — The outline drawing and dimensions shall be in accordance with Fig. 1 and Table 1.



(RADIAL)



(AXIAL)

FIG. 1 OUTLINE DIMENSIONS

Note 1 — Terminations shall be of solid wire and located on centreline within ± 1·57 mm but not less than 0·76 mm from edge of the capacitor.

Note 2 — Dimension '*P*' shall be measured '*L*' Dimensions $^{+0{\cdot}00}_{-1{\cdot}57}$

Typical Construction: Oval, non-metal case, axial/radial terminations.

3. Ratings — Ratings shall be as specified in Table 1.

4. Characteristics

a) Selection tolerance	±2, ±5 and ±10 percent
b) Vibration	10 to 2 000 Hz, 200 m/s^2
c) Bump	4 000 bumps, 400 m/s^2
d) Shock	1 km/s^2
e) Acceleration	1 km/s^2
f) Climatic category (Corresponding to category 1C of Part 1)	55/85/56
g) Low air pressure	1 kPa

Adopted 23 April 1984

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

TABLE 1 DIMENSIONS AND RATINGS

(*Clauses* 2 *and* 3)

Sl No.	Capaci-tance µF	For Rated Voltage 100 V					For Rated Voltage 200 V					For Rated Voltage 400 V				
		T±1·6 (mm)	*H*±1·6 (mm)	$L^{+2·4}_{-1·6}$ (mm)	*M* Radial (mm)	*M* Axial (mm)	*T*±1·6 (mm)	*H*±1·6 (mm)	$L^{+2·4}_{-1·6}$ (mm)	*M* Radial (mm)	*M* Axial (mm)	*T*±1·6 (mm)	*H*±1·6 (mm)	$L^{+2·4}_{-1·6}$ (mm)	*M* Radial (mm)	*M* Axial (mm)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	0·004 7	—	—	—	—	—	—	—	—	—	—	4·0	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
2.	0·005 6	—	—	—	—	—	—	—	—	—	—	4·3	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
3.	0·006 8	—	—	—	—	—	—	—	—	—	—	4·8	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
4.	0·008 2	—	—	—	—	—	—	—	—	—	—	5·6	8·3	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
5.	0·010	—	—	—	—	—	4·0	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	5·6	9·1	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
6.	0·012	—	—	—	—	—	4·0	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	7·1	10·3	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
7.	0·015	—	—	—	—	—	4·0	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	8·3	11·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
8.	0·018	—	—	—	—	—	4·3	7·9	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	6·4	11·5	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
9.	0·022	4·0	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	4·8	8·3	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	7·5	11·5	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05
10.	0·027	4·3	7·5	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	5·6	9·1	15·9	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	7·5	10·7	22·2	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$
11.	0·033	4·8	7·9	15·9	0·6 $^{+0·06}_{-0.05}$	0·5±0·05	4·8	7·5	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	8·3	11·5	22·2	0·8 $^{+0·06}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$
12.	0·039	4·0	7·1	19·1	0·6 $^{+0·06}_{-0.05}$	0·5±0·05	5·2	8·3	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	8·7	11·5	22·2	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$
13.	0·047	4·3	7·9	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	5·6	9·1	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	9·1	11·5	22·2	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$
14.	0·056	4·8	9·1	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	6·4	11·5	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	7·1	12·3	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05
15.	0·068	5·2	8·3	19·1	0.6 $^{+0·06}_{-0·05}$	0·5±0·05	7·5	11·5	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	8·3	13·1	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05
16.	0·082	5·5	9·1	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	8·3	12·3	19·1	0·6 $^{+0·06}_{-0·05}$	0·5±0·05	9·1	13·9	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05

17.	0·10	5·2	8·3	22·2	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	7·5	12·3	22·2	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	9·1	15·5	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05
18.	0·12	5·9	9·5	22·2	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	8·3	13·1	22·2	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	9·9	17·1	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05
19.	0·15	6·4	10·7	22·2	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	9·1	15·5	22·2	0·8 $^{+0·08}_{-0·05}$	0·5+0·05	9·1	17·1	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
20.	0·18	6·4	11·1	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	7·1	12·7	28·6	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	9·1	19·1	34·9	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
21.	0·22	7·1	11·9	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	8·3	14·7	28·6	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	10·7	20·2	34·9	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
22.	0·27	7·9	13·5	28·6	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	9·9	17·1	25·4	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	11·5	21·8	34·9	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
23.	0·33	8·3	14·3	28·5	0·8 $^{+0·08}_{-0·05}$	0·5±0·05	10·7	17·1	28·6	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	11·5	21·8	41·3	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
24.	0·39	9·1	15·1	28·6	0·8 $^{+0·08}_{-0·05}$	0·6 $^{+0·06}_{-0·05}$	11·5	18·6	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	12·3	23·4	41·3	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
25.	0·47	8·3	17·1	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	10·7	20·2	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	13·1	23·4	41·3	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
26.	0·56	9·1	17·9	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	11·5	21·8	34·9	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	13·1	26·6	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
27.	0·68	9·1	19·4	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	14·7	21·8	41·3	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	13·9	28·2	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
28.	0·82	9·9	21·4	31·8	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	15·5	23·4	41·3	0·8 $^{+0·08}_{+0·05}$	0·8 $^{+0·08}_{-0·05}$	15·5	31·3	47·6	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$
29.	1·0	11·5	21·8	38·1	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	13·9	23·4	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	16·3	29·7	50·8	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$
30.	1·2	12·3	23·4	38·1	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	13·9	29·7	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	17·9	34·5	50·8	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$
31.	1·5	15·5	23·4	41·3	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	15·5	32·9	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	18·6	34·5	57·2	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$
32.	1·8	13·9	28·2	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	17·1	32·9	47·6	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$	17·9	37·7	57·2	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$
33.	2·2	13·5	28·6	44·5	0·8 $^{+0·08}_{-0·05}$	0·8 $^{+0·08}_{-0·05}$	18·6	32·9	47·6	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$	19·4	39·3	57·2	1·0 $^{+0·1}_{-0·05}$	1·0 $^{+0·1}_{-0·05}$

5. Marking — *See* **7** of IS : 9638 (Part 1)-1980.

6. Material, Construction and Workmanship — *See* **8** of IS : 9638 (Part 1)-1980.

7. Classification of Tests — *See* **8.1** of IS : 9638 (Part 1)-1980.

7.1 *General Conditions of Tests* — *See* **8.2** of IS : 9638 (Part 1)-1980.

7.1.1 The test schedule and the requirements shall be in accordance with Table 2.

TABLE 2 TEST SCHEDULE AND REQUIREMENTS

SI No.	Test	Clause Ref in IS : 9638 (Part 1)-1980	Conditions of Test	Requirements
(1)	(2)	(3)	(4)	(5)
i)	**All Samples**			
	a) Visual examination	8.4.1	—	The condition workmanship and finish shall be satisfactory. The marking shall be legible and indelible.
	b) Dimensions	8.4.2	—	The dimensions of the capacitors and their terminations shall conform to values given in Fig. 1 and Table 1.
	c) Capacitance	8.3.2	At a frequency of : a) 1 000 ± 100 Hz for capacitors with nominal capacitance up to and including 1 µF b) 100 ± 5 Hz for capacitors above 1 µF	The capacitance value shall correspond with the rated capacitance taking into account the tolerance.
	d) Tangent of loss angle	8.3.3	Same as above	The value shall not exceed 0·006.
	e) Outer foil marking	8.3.6	—	Terminal connected to the outer foil shall be correctly marked.
	f) Inductance	8.3.5	—	The inductance of the capacitor shall not be greater than the inductance of a straight round wire 0·2 mm in diameter and of a length equal to that of capacitor and its terminations (*see* Fig. 2).
	g) Voltage proof	8.3.1	The test voltage at terminals shorted and the body of capacitors shall be 4 kV	There shall be no breakdown or flashover
	h) Insulation resistance	8.3.4	—	a) Between terminations 500 000 MΩ for capacitance up to and including 0·1 µF. 50 000 MΩ µF for capacitance more than 0·1 µF. b) Between terminations connected together and mounting plate 30 000 MΩ.
ii)	**First Group**			
	a) Solderability	8.4.4.1	—	The terminations shall get wet easily and the tinning shall be uniform and good.
	b) Robustness terminations	8.4.3	—	—
	Visual examination	8.4.1	—	There shall be no visible damage. No seepage of impregnant or other mechanical deterioration.
	c) Bump	8.4.6	4 000 Bumps, 400 m/s^2	—
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in SI No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to SI No. (i) (d).
	4) Insulation resistance	8.3.4	—	According to SI No. (i) (h).

(Continued)

TABLE 2 TEST SCHEDULE AND REQUIREMENTS — *Contd*

Sl No.	Test	Clause Ref in IS : 9638 (Part 1)-1980	Conditions of Test	Requirements
(1)	(2)	(3)	(4)	(5)
d)	Vibration	8.4.5	10-2 000 Hz, 200 m/s², 12h	
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	4) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).
e)	Shock	8.4.7	1 km/s²	
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	4) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).
f)	Acceleration (steady state)	8.4.8	1 km/s²	
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	4) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).
g)	Rapid change of temperature			
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	4) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).
h)	Climatic sequence	8.5.1	—	The capacitance shall be measured.
	1) Dry heat	8.5.1.2	At maximum category temperature (+85°C) for 16 h	—
	i) Insulation resistance (hot)	8.3.4	—	a) Between terminations 50 000 MΩ for capacitance up to and including 0·1 μF 5 000 MΩ for capacitance more than 0·1 μF. b) Between terminations connected together and mounting plates **1** 500 MΩ.
	ii) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 10 percent from the value recorded in Sl No. (i) (c).
	iii) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	2) Damp heat (accelerated) first cycle	8.5.1.3	—	—
	Visual examination	8.4.1	—	There shall be no damage.

(*Continued*)

TABLE 2 TEST SCHEDULE AND REQUIREMENTS — *Contd*

Sl No.	Test	Clause Ref in IS : 9638 (Part 1)-1980	Conditions of Test	Requirements
(1)	(2)	(3)	(4)	(5)
	3) Cold*	8.5.1.4	At minimum category temperature (—55°C) for 2 h	—
	i) Visual examination	8.4.1	—	There shall be no damage.
	ii) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 10 percent from the value recorded in Sl No. (ii) (h) (1) (ii).
	4) Low air pressure	8.5.1.5	1 kPa	There shall be no breakdown or flashover
	5) Damp heat (accelerated) remaining cycles	8.5.1.6	—	—
	Final Measurements			
	I) Visual examination	8.4.1	—	There shall be no damage.
	II) Voltage proof	8.3.1	—	There shall be no breakdown or spark or flashover.
	III) Insulation resistance	8.3.4	—	a) Between terminations. The insulation resistance shall be 50 percent of the initial requirements. b) Between terminations connected together and mounting plate 30 000 MΩ.
	IV) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	V) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
iii)	**Second Group**			
	Damp heat (long term)	8.9.2	56 days : To one half of the specimens rated voltage shall be applied	
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Voltage proof	8.3.4	—	There shall be no breakdown or spark or flashover.
	3) Insulation resistance	8.3.5	—	a) Between terminations. The insulation resistance shall be 50 percent of the initial requirements. b) Between terminations connected together and mounting plate 30 000 MΩ.
	4) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	5) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	6) Solderability	8.4.1	—	The terminations shall get wet easily and the tinning shall be uniform and good.
iv)	**Third Group**			
	a) Dielectric absorption (not applicable to capacitors of values 0·001 µF or less)	8.3.7	—	Shall not exceed 0·006.
	b) Storage at cold temperature	8.10	—	—
	Visual examination	8.4.1	—	There shall be no damage.
	c) Endurance	8.8	2 000 h	—
	1) Visual examination	8.4.1	—	There shall be no damage.
	2) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	3) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	4) Voltage proof	8.3.1	—	There shall be no breakdown or flashover.

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*During the last 10 minutes of the period of exposure the rated voltage shall be applied to the specimens. No breakdown of flashover shall occur.

(*Continued*)

TABLE 2 TEST SCHEDULE AND REQUIREMENTS — *Contd.*

Sl No.	Test	Clause Ref in IS : 9638 (Part 1)-1980	Conditions of Test	Requirements
(1)	(2)	(3)	(4)	(5)
	5) Insulation resistance	8.3.4	—	a) Between terminations. The insulation resistance shall be 50 percent of the initial requirements. b) Between terminations connected together and mounting plate 30 000 MΩ.
v)	**Fourth Group**			
	Mould growth	8.7	—	There shall be no mould growth.
vi)	**Fifth Group**			
	a) Resistance to soldering heat	8.4.9	—	—
	i) Visual examination	8.4.1	—	There shall be no damage.
	ii) Capacitance	8.3.2	—	The change in capacitance value shall not exceed ± 5 percent from the value recorded in Sl No. (i) (c).
	iii) Tangent of loss angle	8.3.3	—	According to Sl No. (i) (d).
	iv) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).
	b) Resistance to solvents	8.4.9	—	—
	Visual examination	8.4.1	—	The marking shall be legible and shall not rub off. There shall be no damage.
vii)	**Sixth Group**			
	Salt Mist	8.6	—	—
	i) Visual examination	8.4.1	—	There shall be no damage.
	ii) Voltage proof	8.3.1	—	There shall be no breakdown or flashover.
	iii) Insulation resistance	8.3.4	—	According to Sl No. (i) (h).

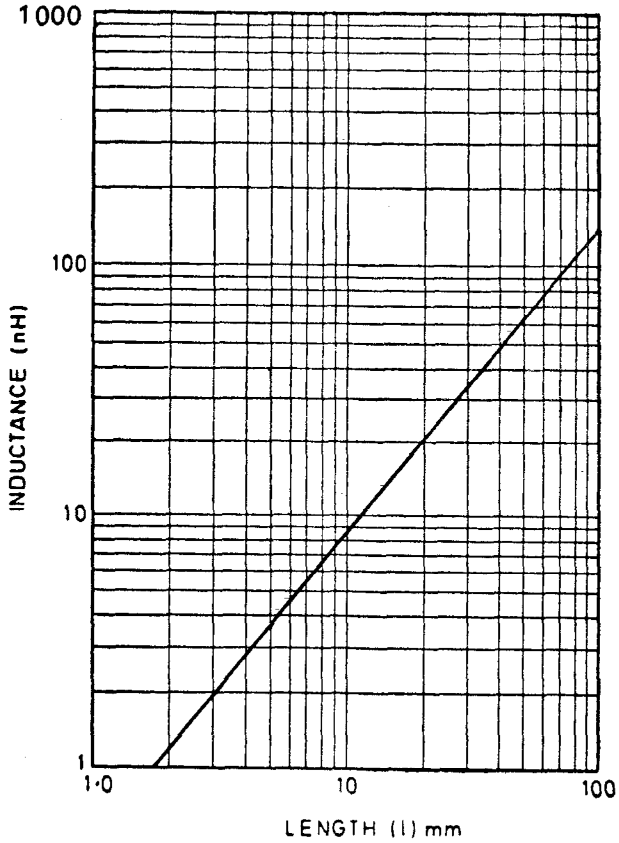

FIG. 2 INDUCTANCE VALUES

EXPLANATORY NOTE

While preparing this standard, assistance has been derived from JSS : 50212-Detail Specification Capacitors, Fixed, Polyester Dielectric issued by the Directorate of Standardization, Department of Defence Production, Ministry of Defence, New Delhi.

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